

Title (en)

MIXER NOZZLE AND METHOD FOR MIXING TWO OR MORE FLUIDS AND PROCESS FOR MANUFACTURING ISOCYANATES

Title (de)

MISCHDÜSE UND VERFAHREN ZUM MISCHEN VON ZWEI ODER MEHR FLUIDEN UND VERFAHREN ZUR HERSTELLUNG VON ISOCYANATEN

Title (fr)

BUSE DE MELANGE, PROCEDE PERMETTANT DE MELANGER AU MOINS DEUX FLUIDES ET PROCEDE DE FABRICATION D'ISOCYANATES

Publication

EP 1758673 A1 20070307 (EN)

Application

EP 04754793 A 20040609

Priority

US 2004018294 W 20040609

Abstract (en)

[origin: WO2006001786A1] A mixing apparatus includes coaxial first and second nozzles (104,105) that taper toward respective discharge ends (110,132) and that have rectangular cross sections. The apparatus may be used to mix fluids, for example to mix phosgene with amines to produce and isocyanates.

IPC 8 full level

B01F 5/02 (2006.01); **B01F 5/20** (2006.01); **B01F 3/08** (2006.01)

CPC (source: EP)

B01F 25/23 (2022.01); **B01F 25/31324** (2022.01); **B01F 25/72** (2022.01); **C07C 263/10** (2013.01); **B01F 23/40** (2022.01); **B01F 2101/2204** (2022.01)

C-Set (source: EP)

1. **C07C 263/10 + C07C 265/10**
2. **C07C 263/10 + C07C 265/12**

Cited by

WO2017063883A1; US10227294B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006001786 A1 20060105; CN 1964776 A 20070516; EP 1758673 A1 20070307; EP 1758673 A4 20110525

DOCDB simple family (application)

US 2004018294 W 20040609; CN 200480043266 A 20040609; EP 04754793 A 20040609